

FM-CW RADAR APPARATUS

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ABSTRACT OF THE DISCLOSURE

10 An FM-CW radar apparatus capable of detecting a
stationary object, in particular, an overbridge, located
above the road ahead in a simple manner uses a traveling
wave antenna as a transmitting antenna, and includes a
means for varying, in upward and downward directions the
projection angle of a combined beam pattern of a
transmitted wave radiated from the traveling wave
15 antenna, and an overbridge is detected by varying the
projection angle of the combined beam pattern in the
upward direction using the varying means. Further, a
phase shifter for varying the projection angle of the
beam pattern in upward/downward directions by controlling
20 the phase of the radio wave to be transmitted or received
is provided on either a transmitting antenna or a
receiving antenna or on a transmitting/receiving antenna,
and an overbridge is detected by controlling the phase
shifter and varying the projection angle of the beam
25 pattern in the upward direction.